## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

1. (currently amended) A liquid cooler comprising:

a hollow tubing having an outer wall and a hollow eireular inner portion, said outer wall having a circular an inner wall portion; and

a first structure contained within said hollow tubing, said first structure functioning to limit the temperature rise on said outer wall by distorting the laminar flow of a fluid flowing along a center portion of said hollow circular inner portion, said center portion defined by a reference line located equidistant from said circular inner wall portion of said outer wall.

a structure disposed along a center portion within said hollow tubing, said structure providing a stationary surface for affecting a laminar flow of a liquid flowing within said hollow tubing whereby a maximum flow velocity of the laminar flow is located substantially midway between said stationary surface and said inner wall portion.

- 2. (currently amended) The liquid cooler of claim 1, wherein said first structure comprises a baffle wire, said baffle wire having a straight wire region interposed between each two adjacent of at least two kink regions, each of said at least two kink regions having a lobe region abutting said eireular inner wall portion, wherein said lobe regions serve to locate said straight wire region along said center portion.
- 3. (original) The liquid cooler of claim 2, wherein the length of each of said straight wire regions is equal.
- 4. (original) The liquid cooler of claim 2, wherein at least two of said at least two kink regions are used to locate said straight wire region within said center portion.
- 5. (original) The liquid cooler of claim 4, wherein at least one of said at least two kink regions is not co-planar with respect to another of said at least two kink regions.
- 6. (withdrawn) The liquid cooler of claim 1, wherein said first structure is an elongated ridge member secured to said circular inner wall portion of said hollow tubing.

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- 7. (withdrawn) The cooling system of claim 6, wherein said elongated ridge member comprises an aluminum alloy elongated ridge member.
  - 8. (currently amended) A cooling system comprising:

a first component selected from the group consisting of a vehicle component and a system component; and

a liquid cooler coupled to said first component, said liquid cooler comprising a hollow tubing having an outer wall and a hollow inner portion, and a first structure, wherein said first structure is contained within a wall of said hollow tubing and functions to limit the temperature rise of along said wall by distorting the laminar flow of a liquid flowing through a center portion of said hollow circular inner portion, said center portion defined by a reference line located equidistant within a circular inner wall portion of said wall. disposed along a center portion within said hollow tubing, said structure providing a stationary surface for affecting a laminar flow of a liquid flowing within said hollow tubing whereby a maximum flow velocity of the laminar flow is located substantially midway between said stationary surface and said inner wall portion.

- 9. (currently amended) The cooling system of claim 8, wherein said first structure comprises a baffle wire, said baffle wire having a straight wire region interposed between each two adjacent of at least two kink regions, each of said at least two kink regions having a lobe region abutting said eireular inner wall portion, wherein said lobe regions serve to locate said straight wire region along said center portion.
- 10. (withdrawn) The cooling system of claim 8, wherein said first structure is an elongated ridge member having a pair of end regions and a middle portion, wherein said pair of end regions are secured at a first location on said circular inner wall portion and wherein said middle portion extends to said center portion.
- 11. (withdrawn) The cooling system of claim 10, wherein said liquid cooler has a thermal interface portion, said thermal interface portion being coupled to said outer wall at a position nearest to said first location and being coupled to said first component.
- 12. (withdrawn) The cooling system of claim 11, wherein a layer of a first substance is placed between said thermal interface plate and said first component, said first substance

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capable of enhancing the heat transfer capabilities between said first component and said liquid cooler, wherein said first substance is selected from the group consisting of a thermal grease, a thermal adhesive, and a film interposer.

- 13. (currently amended) The cooling system of claim 8, wherein said vehicle component is an electronic control module.
- 14. (original) The cooling system of claim 8, wherein said liquid is selected from the group consisting of diesel fuel, gasoline, water-mix engine coolant, and motor oil.
- 15. (currently amended) A method for improving the cooling capabilities of a liquid cooler eoupled to a vehicle or system component having a hollow tubing having an outer wall and a hollow inner portion, the method comprising the steps [[step]] of:

decreasing the temperature rise along an outer surface of a hollow-tubing resulting from the laminar flow-of a-liquid through said hollow tubing.

providing a laminar flow of a liquid through the hollow tubing; and

shifting the laminar flow of the liquid so that a maximum velocity of the laminar flow is located substantially midway between a center portion and the outer wall of the hollow tubing, whereby a rise in temperature along an outer surface of the outer wall decreases.

- 16. (cancelled)
- 17. (currently amended) The method of claim [[16]] 15, wherein the step of distorting shifting the laminar flow of a liquid flowing through a center-portion of a hollow tubing comprises the step of introducing providing a first structure within [[a]] the hollow tubing of the liquid cooler, said first the structure used to distort shifting the laminar flow of a liquid flowing through a center portion of said hollow tubing.
- 18. (currently amended) The method of claim [[16]] 15, wherein the step of distorting shifting the laminar flow-of a liquid flowing through a center portion of a hollow tubing comprises the step of providing introducing a first structure within [[said]] the hollow tubing of the liquid cooler, said-first the structure used to distort shifting the laminar flow-of a liquid flowing through a center portion of said hollow tubing and to increase increasing [[the]] a surface area within [[said]] the hollow tubing.

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- 19. (currently amended) The method of claim 17, wherein the step of introducing providing a first structure comprises the step of introducing a first structure comprises the step of introducing providing a baffle wire within [[said]] the hollow tubing of the liquid cooler, [[said]] the baffle wire having a straight wire region interposed between each two adjacent of at least two kink regions, each of [[said]] the at least two kink regions having a lobe region abutting said eircular the inner wall portion, wherein [[said]] the lobe regions serve to locate [[said]] the straight wire region along [[said]] the center portion, wherein [[said]] the straight wire region shifts the laminar flow of a liquid flowing through said center portion of said hollow tubing.
- 20. (withdrawn) The method of claim 18, wherein the step of introducing a first structure comprises the step of introducing an elongated ridge member to a first location on a circular inner wall portion of said hollow tubing, wherein said elongated ridge member has a pair of end regions secured at said first location and a middle portion extending to said center portion, wherein said first location is in closest proximity with a thermal interface portion of said liquid cooler.

Respectfully Submitted,

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